CIVIL QUALITY
CONSULTANTS & ENGINEERS

Testing of Construction Material - Mechanical, Soil
Bitumen, Non Destructive Testing Services, Project
Management Consultants, Third Party Quality Assurance, DPR

Job No : CQCE/BBMP/MKC/04/2023-24 Date : 20.03.2024

TEST REPORT ON CEMENT

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Mahesh K C** (Avani Constructions), Contractor, Bangalore.

Name of Work : Removal of silt & Repairs and Maintenance of footpaths in ward no- 04 Yelahanka New Town, BBMP, Bangalore.

Sample : : Cement (ACC 53 grade OPC)

Sample Supplied by: : AGENCY

Date of Manufacture: : February-2024

Date of Testing : 18.03.2024 to 20.03.2024

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	305 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00%	-

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Corporate Off : No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact : 8553518550, 080-23240644 Email : civilqualityconsultants@gmail.com

CIVIL QUALITY
CONSULTANTS & ENGINEERS

Testing of Construction Material - Mechanical, Soil
Bitumen, Non Destructive Testing Services, Project
Management Consultants, Third Party Quality Assurance, DPR

Job No : CQCE/BBMP/MKC/04/2023-24

Date : 20.03.2024

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency : **Sri. Mahesh K C** (Avani Constructions), Contractor, Bangalore.
Name of Work : Removal of silt & Repairs and Maintenance of footpaths in ward no- 04 Yelahanka New Town, BBMP, Bangalore.
Date of Testing : 20.03.2024
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	73	7.30	7.30	92.7	90-100
2.36	140	14.00	21.30	78.7	75-100
1.18	150	15.00	36.30	63.7	55-90
600 Micron	241	24.10	60.40	39.6	35-59
300 Micron	157	15.70	76.10	23.9	8-30
150 Micron	148	14.80	90.90	9.1	0-10

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Testing of Construction Material - Mechanical, Soil
Bitumen, Non Destructive Testing Services, Project
Management Consultants, Third Party Quality Assurance, DPR

Job No : CQCE/BBMP/MKC/04/2023-24

Date : 20.03.2024

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Mahesh K C** (Avani Constructions), Contractor, Bangalore.

Name of Work : Removal of silt & Repairs and Maintenance of footpaths in ward no- 04 Yelahanka New Town, BBMP, Bangalore.

Date of Testing : 20.03.2024

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	166	3.3	3.3	96.7	95-100
10	2711	54.2	57.5	42.5	25-55
4.75	1722	34.4	92.0	8.0	0-10

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Testing of Construction Material - Mechanical, Soil
Bitumen, Non Destructive Testing Services, Project
Management Consultants, Third Party Quality Assurance, DPR

Job No : CQCE/BBMP/MKC/04/2023-24

Date : 20.03.2024

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Mahesh K C** (Avani Constructions), Contractor, Bangalore.

Name of Work : Removal of silt & Repairs and Maintenance of footpaths in ward no- 04 Yelahanka New Town, BBMP, Bangalore.

Date of Testing : 20.03.2024

Material : Sand(Plastering)

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	10	1.00	1.00	99.0	95-100
2.36	23	2.30	3.30	96.7	95-100
1.18	29	2.90	6.20	93.8	90-100
600 Micron	60	6.00	12.20	87.8	80-100
300 Micron	632	63.20	75.40	24.6	20-65
150 Micron	114	11.40	86.80	13.2	0-15

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Testing of Construction Material - Mechanical, Soil
Bitumen, Non Destructive Testing Services, Project
Management Consultants, Third Party Quality Assurance, DPR

Job No : CQCE/BBMP/MKC/04/2023-24 Date : 20.03.2024

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency : **Sri. Mahesh K C** (Avani Constructions), Contractor, Bangalore.
Name of Work : Removal of silt & Repairs and Maintenance of footpaths in ward no- 04 Yelahanka New Town, BBMP, Bangalore.
Date of Testing : 20.03.2024
Material : Sand(Masonry) Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	65	6.50	6.50	93.5	90-100
1.18	158	15.80	22.30	77.7	70-100
600 Micron	276	27.60	49.90	50.1	40-100
300 Micron	241	24.10	74.00	26.0	5-70
150 Micron	125	12.50	86.50	13.5	0-15

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Testing of Construction Material - Mechanical, Soil
Bitumen, Non Destructive Testing Services, Project
Management Consultants, Third Party Quality Assurance, DPR

Job No : CQCE/BBMP/MKC/04/2023-24

Date: 08.04.2024

KERB STONE (CORE) TEST REPORT

Client	:	**Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Agency	:	**Sri. Mahesh K C** (Avani Constructions), Contractor, Bangalore.
Name of Work	:	Removal of silt & Repairs and Maintenance of footpaths in ward no- 04 Yelahanka New Town, BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	08.04.2024
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	75.00	0.352	2390.30	1.50	0.946	32.50	16.55	17.88	16.91	21.14
2	50.00	83.00	0.384	2356.26	1.66	0.963	34.10	17.37	18.76	18.07	22.58
3	50.00	80.00	0.371	2361.86	1.60	0.957	33.00	16.81	18.15	17.37	21.71

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Testing of Construction Material - Mechanical, Soil
Bitumen, Non Destructive Testing Services, Project
Management Consultants, Third Party Quality Assurance, DPR

Job No : CQCE/BBMP/MKC/04/2023-24

Date: 08.04.2024

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client	:	**Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP,
Contractor	:	**Sri. Mahesh K C** (Avani Constructions), Contractor, Bangalore.
Name of Work	:	Removal of silt & Repairs and Maintenance of footpaths in ward no- 04 Yelahanka New Town, BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	08.04.2024
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	80.00	0.368	2342.76	1.60	0.957	33.6	17.11	18.48	17.68	22.10
2	50.00	84.00	0.392	2379.14	1.68	0.965	32.1	16.35	17.66	17.05	21.31
3	50.00	91.00	0.414	2317.02	1.82	0.981	34.8	17.72	19.14	18.77	23.46

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Testing of Construction Material - Mechanical, Soil Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR

Job No : CQCE/BBMP/MKC/04/2023-24

Date : 03.04.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Mahesh K C** (Avani Constructions), Contractor, Bangalore.

Name of the work : Removal of silt & Repairs and Maintenance of footpaths in ward no- 04 Yelahanka New Town, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.03.2024	03.04.2024	8.154	350.7	15.59
2	27.03.2024	03.04.2024	8.188	365.2	16.23
3	27.03.2024	03.04.2024	8.194	337.0	14.98

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CIVIL QUALITY
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Testing of Construction Material - Mechanical, Soil
Bitumen, Non Destructive Testing Services, Project
Management Consultants, Third Party Quality Assurance, DPR

Job No : CQCE/BBMP/MKC/04/2023-24

Date : 03.04.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Mahesh K C** (Avani Constructions), Contractor, Bangalore.

Name of the work : Removal of silt & Repairs and Maintenance of footpaths in ward no- 04 Yelahanka New Town, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.03.2024	03.04.2024	8.165	330.2	14.68
2	27.03.2024	03.04.2024	8.147	341.5	15.18
3	27.03.2024	03.04.2024	8.183	357.9	15.91

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Testing of Construction Material - Mechanical, Soil
Bitumen, Non Destructive Testing Services, Project
Management Consultants, Third Party Quality Assurance, DPR

Job No : CQCE/BBMP/MKC/04/2023-24 Date : 24.04.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Mahesh K C** (Avani Constructions), Contractor, Bangalore.

Name of the work : Removal of silt & Repairs and Maintenance of footpaths in ward no- 04 Yelahanka New Town, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.03.2024	24.04.2024	8.128	536.2	23.83
2	27.03.2024	24.04.2024	8.084	510.3	22.68
3	27.03.2024	24.04.2024	8.135	494.1	21.96

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Testing of Construction Material - Mechanical, Soil
Bitumen, Non Destructive Testing Services, Project
Management Consultants, Third Party Quality Assurance, DPR

Job No : CQCE/BBMP/MKC/04/2023-24

Date : 24.04.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Mahesh K C** (Avani Constructions), Contractor, Bangalore.

Name of the work : Removal of silt & Repairs and Maintenance of footpaths in ward no- 04 Yelahanka New Town, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.03.2024	24.04.2024	8.196	537.6	23.89
2	27.03.2024	24.04.2024	8.123	515.2	22.90
3	27.03.2024	24.04.2024	8.065	494.1	21.96

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CIVIL QUALITY
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Testing of Construction Material - Mechanical, Soil
Bitumen, Non Destructive Testing Services, Project
Management Consultants, Third Party Quality Assurance, DPR

Job No : CQCE/BBMP/MKC/04/2023-24

Date : 05.04.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Mahesh K C** (Avani Constructions), Contractor, Bangalore.

Name of the work : Removal of silt & Repairs and Maintenance of footpaths in ward no- 04 Yelahanka New Town, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.03.2024	05.04.2024	8.167	331.8	14.75
2	29.03.2024	05.04.2024	8.174	349.5	15.53
3	29.03.2024	05.04.2024	8.154	353.2	15.70

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CIVIL QUALITY
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Testing of Construction Material - Mechanical, Soil
Bitumen, Non Destructive Testing Services, Project
Management Consultants, Third Party Quality Assurance, DPR

Job No : CQCE/BBMP/MKC/04/2023-24

Date : 26.04.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Mahesh K C** (Avani Constructions), Contractor, Bangalore.

Name of the work : Removal of silt & Repairs and Maintenance of footpaths in ward no- 04 Yelahanka New Town, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.03.2024	26.04.2024	8.184	535.2	23.79
2	29.03.2024	26.04.2024	8.163	550.4	24.46
3	29.03.2024	26.04.2024	8.057	511.8	22.75

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Testing of Construction Material - Mechanical, Soil
Bitumen, Non Destructive Testing Services, Project
Management Consultants, Third Party Quality Assurance, DPR

Job No : CQCE/BBMP/MKC/04/2023-24

Date : 05.04.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Mahesh K C** (Avani Constructions), Contractor, Bangalore.

Name of the work : Removal of silt & Repairs and Maintenance of footpaths in ward no- 04 Yelahanka New Town, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.03.2024	05.04.2024	8.194	334.5	14.87
2	29.03.2024	05.04.2024	8.178	347.2	15.43
3	29.03.2024	05.04.2024	8.164	357.9	15.91

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Testing of Construction Material - Mechanical, Soil
Bitumen, Non Destructive Testing Services, Project
Management Consultants, Third Party Quality Assurance, DPR

Job No : CQCE/BBMP/MKC/04/2023-24 Date : 26.04.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. Mahesh K C** (Avani Constructions), Contractor, Bangalore.

Name of the work : Removal of silt & Repairs and Maintenance of footpaths in ward no- 04 Yelahanka New Town, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.03.2024	26.04.2024	8.187	537.5	23.89
2	29.03.2024	26.04.2024	8.162	501.2	22.28
3	29.03.2024	26.04.2024	8.047	480.8	21.37

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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